

AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended): A digital mixer apparatus for performing mixing processing on sound signals to output mixed sound signals, said apparatus comprising:

a plurality of input channels each arranged to receive a sound signal;

a first bus and a plurality of second buses each arranged to perform mixing processing on the sound signals input thereto from one or more of said plurality of input channels and thereby outputting mixed sound signals;

a plurality of bus selecting controls provided in one-to-one corresponding relation to said plurality of second buses, each of said bus selecting controls selecting a corresponding one of said second buses in response to operation thereof;

a plurality of channel-specific send controls provided in corresponding relation to said plurality of input channels, each of said channel-specific send controls controlling a send level of the sound signal to be delivered from a corresponding one of said input channels to the selected bus;

a plurality of channel-ON controls provided in corresponding relation to said plurality of input channels, each of said channel-ON controls setting a signal ON/OFF state whether or not the sound signal is passed through each of said input channels corresponding to each of said channel-ON controls and inputs to the first bus, each of said channel-ON controls having a display that displays the signal ON/OFF state of the corresponding input channel;

a send ON/OFF section that sets send ON/OFF states whether or not to permit delivery of the sound signals from said input channels to said second buses for each of combinations of said input channels and said second buses; and

a control section that, while any one of said plurality of bus selecting controls is being operated beyond a predetermined time period, causes the displays of said channel-ON controls to display the send ON/OFF states, in said send ON/OFF section, of the delivery of the sound signals from the input channels, corresponding to said channel-ON controls, to the second bus corresponding to the one bus selecting control, instead of displaying the signal ON/OFF states of the input channels.

Claim 2 (currently amended): A digital mixer apparatus for performing mixing processing on sound signals to output mixed sound signals, said apparatus comprising:

a plurality of input channels each arranged to receive a sound signal;

a first bus and a plurality of second buses each arranged to perform mixing processing on the sound signals input thereto from one or more of said plurality of input channels and thereby outputting mixed sound signals;

a plurality of bus selecting controls provided in one-to-one corresponding relation to said plurality of second buses, each of said bus selecting controls selecting a corresponding one of said second buses in response to operation thereof;

a plurality of channel-specific send controls provided in corresponding relation to said plurality of input channels, each of said channel-specific send controls controlling a send level of the sound signal to be sent from a corresponding one of said input channels to the bus selected via said bus selecting control;

a plurality of channel-ON controls provided in corresponding relation to said plurality of input channels, each of said channel-ON controls setting a signal ON/OFF state whether or not the sound signal is passed through each of said input channels corresponding to each of said channel-ON controls and inputs to the first bus, each of said channel-ON controls having a display that displays the signal ON/OFF state of the corresponding input channel;

a send ON/OFF section that sets send ON/OFF states whether or not to permit delivery of the sound signals from said input channels to said second buses for each of combinations of said input channels and said second buses; and

a control section that, while any one of said plurality of bus selecting controls is being operated beyond a predetermined time period, changes, in response to operation of any one of said channel-ON controls, the send ON/OFF state, in said send ON/OFF section, of the delivery of the sound signal from the input channel, corresponding to the one channel-ON control, to the second bus corresponding to the one bus selecting control, instead of changing the signal ON/OFF states of the input channels corresponding to the one channel-ON control.

Claim 3 (previously presented): A digital mixer apparatus for performing mixing processing on sound signals to output mixed sound signals, said apparatus comprising:

- a plurality of input channels each arranged to receive a sound signal;

- a plurality of layer controls provided in one-to-one corresponding relation to a plurality of layers provided by dividing said plurality of input channels into groups each comprising a predetermined number of the input channels, each of said layer controls selecting, in response to operation thereof, the predetermined number of the input channels belonging to a corresponding one of said layers;

- a first bus that performs mixing processing on the sound signals input thereto from selected ones of said plurality of input channels and thereby outputs mixed sound signals;

- a predetermined number of first level controls to which are allocated the predetermined number of the input channels selected via said layer controls, each of said first level controls adjusting, in response to operation thereof, first delivery levels of the sound signals to be delivered from the input channels allocated thereto to said first bus;

- a plurality of second buses that perform mixing processing on the sound signals input thereto from selected ones of said plurality of input channels and thereby output mixed sound signals;

- a plurality of bus selecting controls provided in one-to-one corresponding relation to said plurality of second buses, each of said bus selecting controls selecting a corresponding one of said second buses in response to operation thereof;

- a predetermined number of second level controls to which are allocated the predetermined number of the input channels selected via said layer controls, each of said second level controls adjusting, in response to operation thereof, second delivery levels of the sound signals to be delivered from the input channels allocated thereto to said second bus selected via said bus selecting control; and

- a control section that, in response to operation of any one of said plurality of bus selecting controls during continued operation of any one of said plurality of layer controls, copies, the second delivery levels of the signals to be delivered from the predetermined number of the input channels to said second bus corresponding to the one bus selecting control, from the first delivery levels, set via

said first level controls, of the signals to be delivered from the predetermined number of the input channels, corresponding to the one layer control, to said first bus.